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9 October 1969

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MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report, 28 September - 7 October 1969

1. Locations and Purposes of Visits:

25X1 [redacted] and the undersigned visited Detachment G on 29 September 1969 to pick up equipment for the "Dilbert Dunker" underwater escape training held on 1-3 October 1969 at Miramar Naval Air Station, San Diego, California. Low-pressure chamber flights were also conducted on the 29th of September utilizing Personal Equipment personnel from Detachment G as inside observers. Testing and evaluation of seat-kit oxygen duration times were initiated as well as some proposals for urine collecting device (UCD) chamber tests. On 30 September and 1-3 October 1969 "Dilbert Dunker" training was provided to 25X1 [redacted] IDEALIST Project pilots. On 6 and 7 October a trip was made to Brooks AFB, San Antonio, Texas, to accomplish final evaluation of the thermal protective layer for use in the S1010 PPA and to perform tests with the prototype life raft.

2. Results of Visits:

A. Detachment G - A briefing was conducted at Detachment G for the new Commander and IDEALIST pilots on the underwater escape trainer "Dilbert Dunker" training. A short silent movie was also shown

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illustrating the procedures to be followed in accomplishing escape from an aircraft in the water. Chamber flights were also conducted both in shirt-sleeve configuration and in the S1010 PPA. Initial testing on seat kit oxygen duration times indicates more than one hour at thirty thousand (30,000) feet and an adequate oxygen quantity for emergency descent in the article. Further testing will be conducted this fall on the emergency oxygen system as well as the UCD device. Throughout the past year a few isolated cases of UCD malfunction have occurred. Altitude Chamber testing in the Full-Pressure Suit will be performed to try and solve this disconcerting situation of urine backflow and subsequent dampness in the suit. Discussions with IDEALIST pilots indicate some heat problems on the back of the hands and a prototype glove is also being fabricated for [REDACTED]

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B. Miramar NAS - "Dilbert Dunker" training was successfully accomplished for [REDACTED] IDEALIST pilots with no problems encountered. Project pilots felt that the training was impressive and quite useful in future proposed operations.

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C. Brooks AFB, San Antonio, Texas - Final evaluation was completed on the thermal protective layer to be installed in the S1010 PPA for protection against cold water. Survival time in cold water will be more than doubled utilizing this modification. A prototype layer is being prepared for [REDACTED] to ascertain pilot acceptability.

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CONCURRENCE AND/OR COMMENT

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